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NOTICE OF ALLOWANCE AND FEE(S) DUE

23347

7590

02/09/2010

EXAMINER
CAMPBELL, VICTORIA P

PAPER NUMBER

GLAXOSMITHKLINE CORPORATE INTELLECTUAL PROPERTY, MAI B482 FIVE MOORE DR., PO BOX 13398 RESEARCH TRIANGLE PARK, NC 27709-3398

3763

ART UNIT

DATE MAILED: 02/09/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,692	08/03/2006	Stanley George Bonney	PB60733-F USW	4937

TITLE OF INVENTION: METERING PUMP SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/10/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including ed below or directed oth tions.	ng the Patent, a nerwise in Bloc	dvance o k 1, by (orders and notification a) specifying a new of					correspondence address as rate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)						Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
23347	7590 02/09	/2010			114.			<u> </u>	niccion	
GLAXOSMITHKLINE CORPORATE INTELLECTUAL PROPERTY, MAI B482 FIVE MOORE DR., PO BOX 13398						Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Unit States Postal Service with sufficient postage for first class mail in an envelog addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO (571) 273-2885, on the date indicated below.				
RESEARCH TE	RIANGLE PARK, N	IC 27709-33	98		Г				(Depositor's name)	
									(Signature)	
									(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO		NTOR	R ATTORNEY DOCKET NO.		RNEY DOCKET NO.	CONFIRMATION NO.	
10/597,692	08/03/2006	•		Stanley George Bor	nney		PI	360733-F USW	4937	
TITLE OF INVENTION	: METERING PUMP S	YSTEM								
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nonprovisional	NO	\$1510	'	\$300		\$0		\$1810	05/10/2010	
EXAM	IINER	ART UN	IT	CLASS-SUBCLAS	ASS					
CAMPBELL,	VICTORIA P	3763		604-019000						
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 				or agents OR, alte (2) the name of a registered attorne 2 registered paten listed, no name w	1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is isted, no name will be printed.					
3. ASSIGNEE NAME A PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no	assignee	data will appear on	the pa	ntent. If an assign assignment.			cument has been filed for	
Please check the appropri	riate assignee category or	categories (will	not be p	rinted on the patent):		Individual	orporati	on or other private gro	up entity Government	
4a. The following fee(s)	are submitted:		4	_ ·		se first reapply a	ny prev	iously paid issue fee s	hown above)	
☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			A check is enclosed.							
				☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Sta	,			_					,	
	ns SMALL ENTITY state			==				TITY status. See 37 CF		
interest as shown by the	records of the United Sta	tes Patent and T	rademar	k Office.	ınan u	пе аррисані; а геді	isterea a	utorney or agent; or the	e assignee or other party in	
Authorized Signature						Date				
Typed or printed name					_					
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	FR 1.311. The EU.S.C. 122 and USPTO. Time rden, should be DOT SEND F	nformati 37 CFR will vary sent to th EES OR	on is required to obtai 1.14. This collection y depending upon the he Chief Information (COMPLETED FORM	in or r is est indiv Office MS TO	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, including s on the amount of tim nark Office, U.S. Depa O TO: Commissioner fo	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,	

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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23347 75	90 02/09/2010	EXAMINER			
GLAXOSMITHI	KLINE	CAMPBELL,	VICTORIA P		
	TELLECTUAL PROPI	ART UNIT	PAPER NUMBER		
FIVE MOORE DR	L., PO BOX 13398 ANGLE PARK, NC 27	3763			
THOUGHT TIME	$\mathbf{x}_1 \cup \mathbf{x} \cup \mathbf{x}_1 \cup x$	DATE MAILED, 02/00/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 596 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 596 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/597,692	BONNEY ET AL.	
Notice of Allowability	Examiner	Art Unit	_
	VICTORIA P. CAMPBELL	3763	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 21 January 2010.	(OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is sub	is application. If not included cation will be mailed in due course. THIS	9
 The allowed claim(s) is/are 1,2,4-14,16,18-23 and 25-37. 			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 	been received. been received in Application N	No	
International Bureau (PCT Rule 17.2(a)).	camento nave been received ii	Time national stage application from the	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application. itted. Note the attached EXAM	INER'S AMENDMENT or NOTICE OF	
INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus	, , ,	eciaration is deficient.	
(a) ☐ including changes required by the Notice of Draftspers		PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	,	,	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1			
each sheet. Replacement sheet(s) should be labeled as such in t	_	• •	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☒ Information Disclosure Statements (PTO/SB/08),	6. ☐ Interview Sum Paper No./Ma 7. ☐ Examiner's An —	ail Date	

Application/Control Number: 10/597,692 Page 2

Art Unit: 3763

DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimers filed on December 21, 2009 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent Application Nos. 10/597703, 10/597678, 10/597624, 10/597683, and 10/597690 have been reviewed and are accepted. The terminal disclaimers have been recorded.

Information Disclosure Statement

2. The examiner notes that the third document listed on the IDS submitted August 3, 2006 is incorrect and is why the document was not previously considered. However, the examiner has determined which document was intended by the applicant (USPGPub 2004/0007597 A1 to Masuzzo et al) and has amended applicant's IDS and considered the reference as such.

Allowable Subject Matter

- 3. Claims 1, 2, 4-14, 16, 18-23, and 25-37 are allowed as amended by applicant in the claims submitted January 21, 2010.
- 4. The following is an examiner's statement of reasons for allowance: The claims in this application have been allowed because the prior art of record fails to teach or disclose, either singly or in combination, the claimed device of a metering pump system having a storage chamber; a metering chamber movable between a contracted and an

Application/Control Number: 10/597,692

Page 3

Art Unit: 3763

expanded state, wherein movement of the metering chamber from its contracted state to its expanded state results in the metering chamber being placed in fluid communication with the storage chamber in order to receive a volume of fluid product in excess of the desired dose amount; a bleed mechanism for bleeding the excess volume; and an inlet valve mechanism between the storage and metering chambers having an open state which permits fluid flow from the storage to the metering chamber, and a closed state which prevents flow between the chambers; wherein the inlet valve mechanism is adapted so that it remains closed except when the metering chamber moves from its contracted to its expanded state or wherein negative pressure created in the metering chamber is able to move the inlet valve mechanism from its closed state to its open state.

- 5. The closest prior art of record is Martin (USPN 5,085,351). However, this reference fails to teach, disclose, or render obvious the invention as claimed or described above.
- 6. Regarding independent claim 1, the closest prior art of record fails to teach among all the limitations or render obvious an inlet valve mechanism which is adapted so that it remains closed except when the metering chamber moves from its contracted to its expanded state. Regarding independent claim 2, the closest prior art of record fails to teach among all the limitations or render obvious an inlet valve mechanism wherein negative pressure created in the metering chamber is able to move the inlet valve mechanism from its closed state to its open state.

Application/Control Number: 10/597,692 Page 4

Art Unit: 3763

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VICTORIA P. CAMPBELL whose telephone number is (571)270-5035. The examiner can normally be reached on Monday-Thursday, 7-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nicholas Lucchesi can be reached on 571-272-4977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/597,692 Page 5

Art Unit: 3763

Victoria P Campbell Examiner, AU 3763

/Nicholas D Lucchesi/ Supervisory Patent Examiner, Art Unit 3763